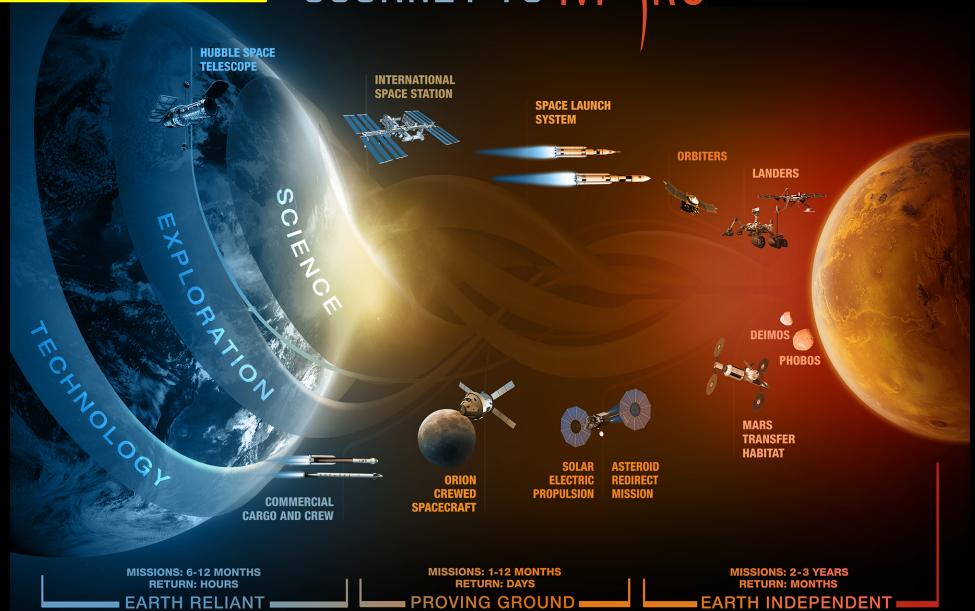


'Old' Space Policy: JOURNEY TO MARS



EXPANDING HUMAN PRESENCE IN PARTNERSHIP

CREATING ECONOMIC OPPORTUNITIES, ADVANCING TECHNOLOGIES, AND ENABLING DISCOVERY

Now

Using the International Space Station



Operating in the Lunar Vicinity (proving ground)



Leaving the Earth-Moon System and Reaching Mars Orbit



~2017 Space Policy



Continue research and testing on ISS to solve exploration challenges. Evaluate potential for lunar resources. Develop standards.

Phase 1

Begin missions in cislunar space. Initiate next key deep space capability.

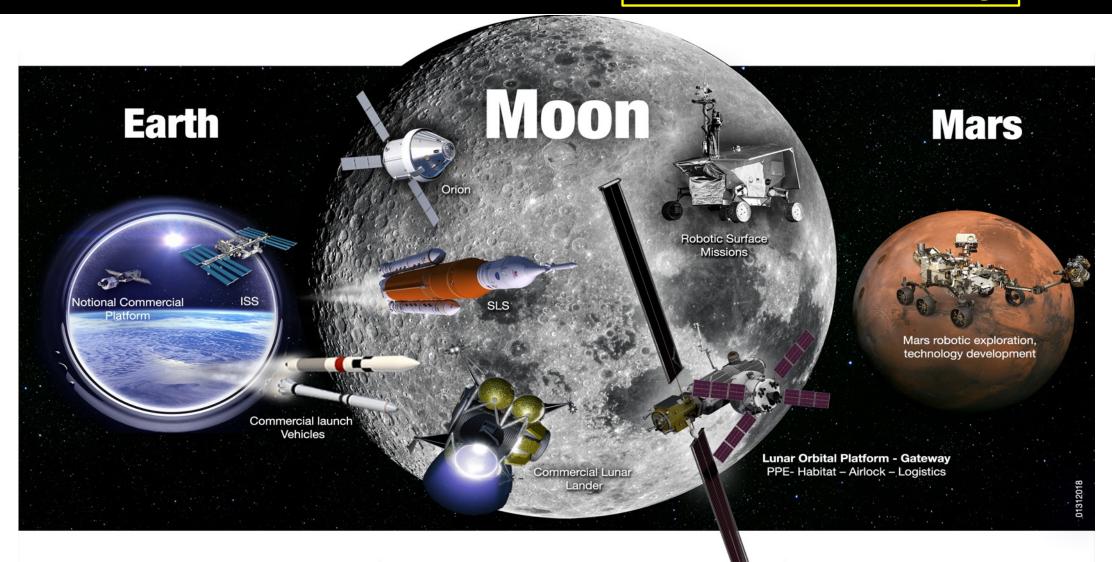
Phase 2

Complete next deep space capability and checkout.

LUNAR EXPLORATION CAMPAIGN

New Space Policy





In LEO

Commercial & International partnerships

In Cislunar Space

A return to the moon for long-term exploration

On Mars

Research to inform future crewed missions

Space Policy Directive-1





"Lead an innovative and sustainable program of exploration with commercial and international partners to enable human expansion across the solar system and to bring back to Earth new knowledge and opportunities.

Beginning with missions beyond low-Earth orbit, the United States will lead the return of humans to the Moon for long-term exploration and utilization, followed by human missions to Mars and other destinations."

CCMC and International Space Station/Low Earth Orbit



- Continue model development and advancement
- Collaborations with SRAG



CCMC and Cis-Lunar Space





CCMC and Surface Expeditions



Small rovers

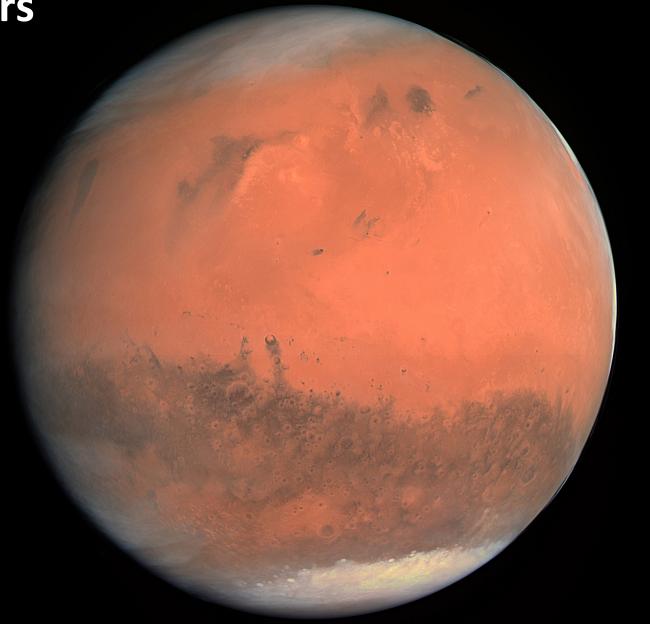
Increasingly larger rovers

- Human operated rovers
- Other systems
- Human presence



CCMC and Mars

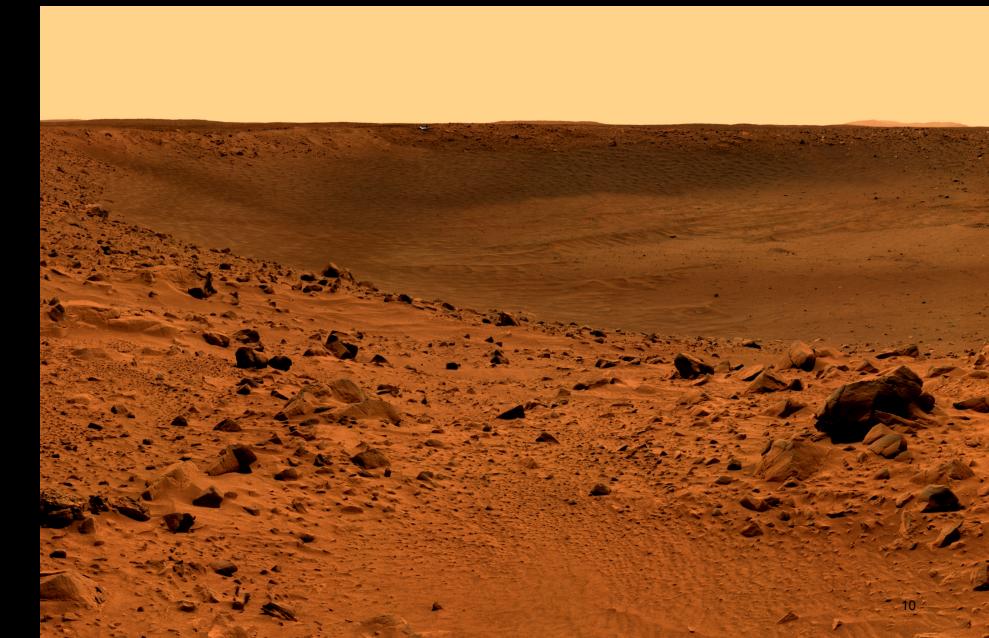




CCMC and Mars Surface



Robotic missions...in advance of human presence







- Space Weather Architecture
- Many years in between for "adjustments"



CCMC and

